

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P319147

Luminaire Tested: **GLEON-SA3A-827-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319147  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3A-827-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10386 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

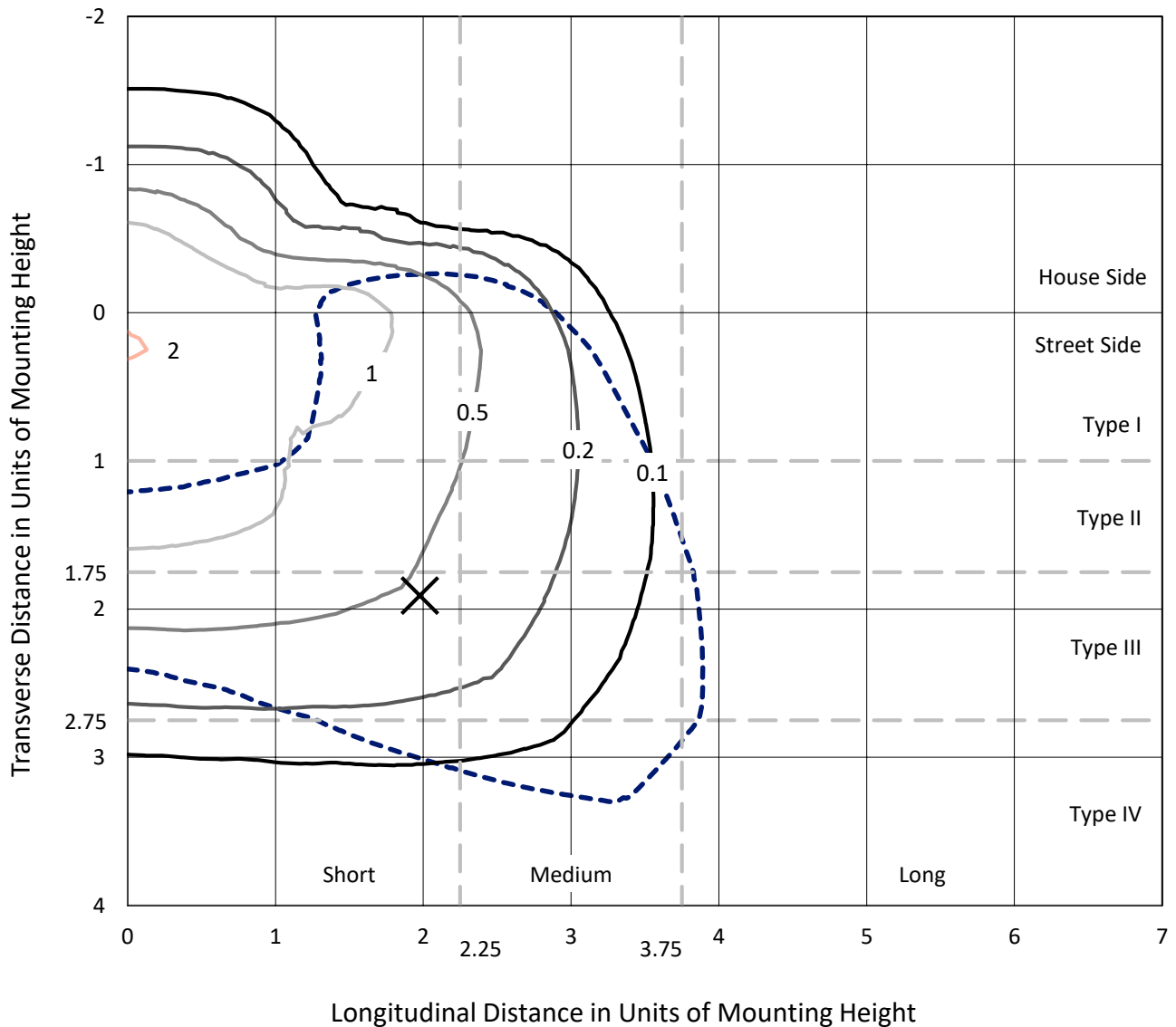
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

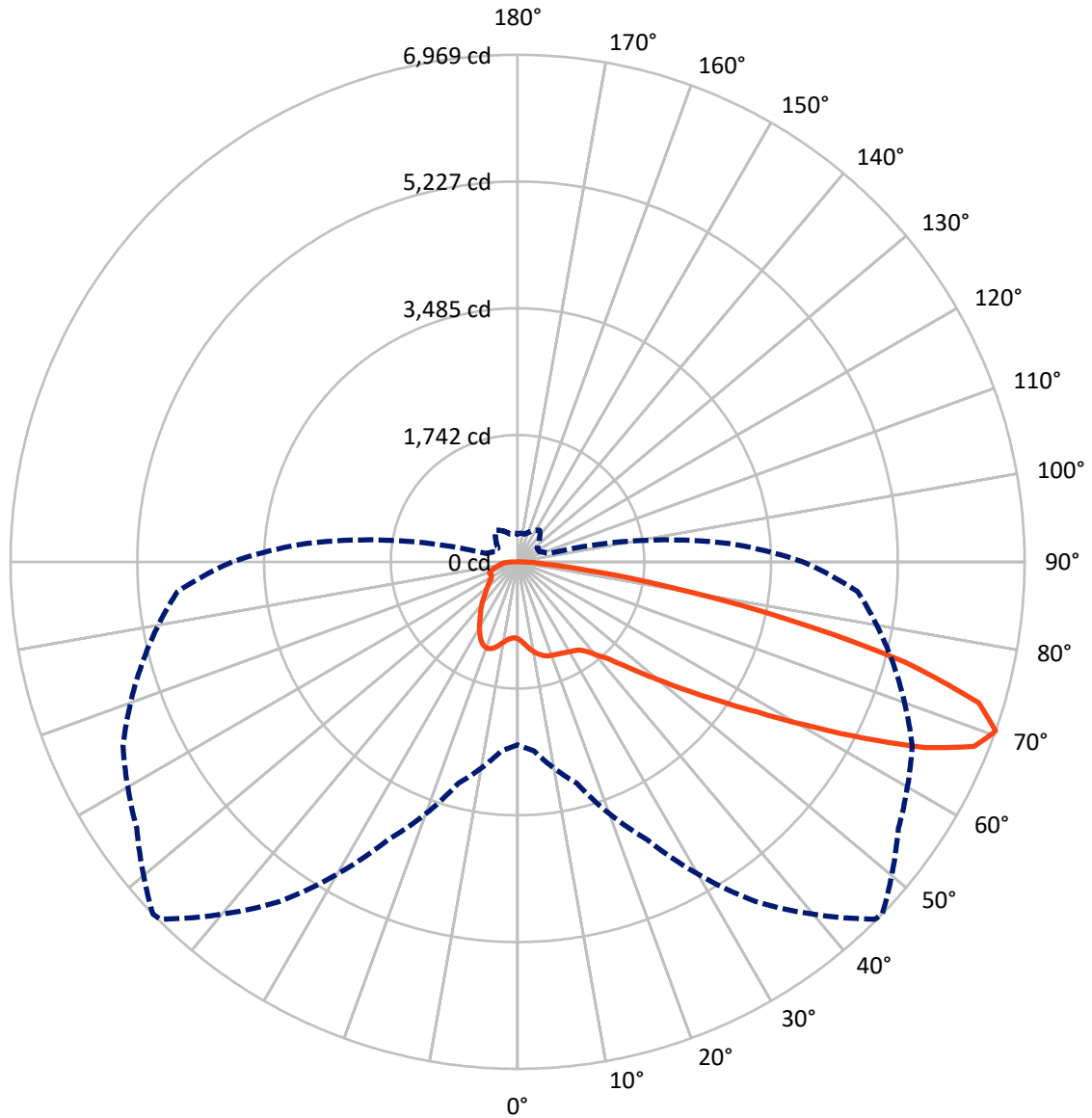
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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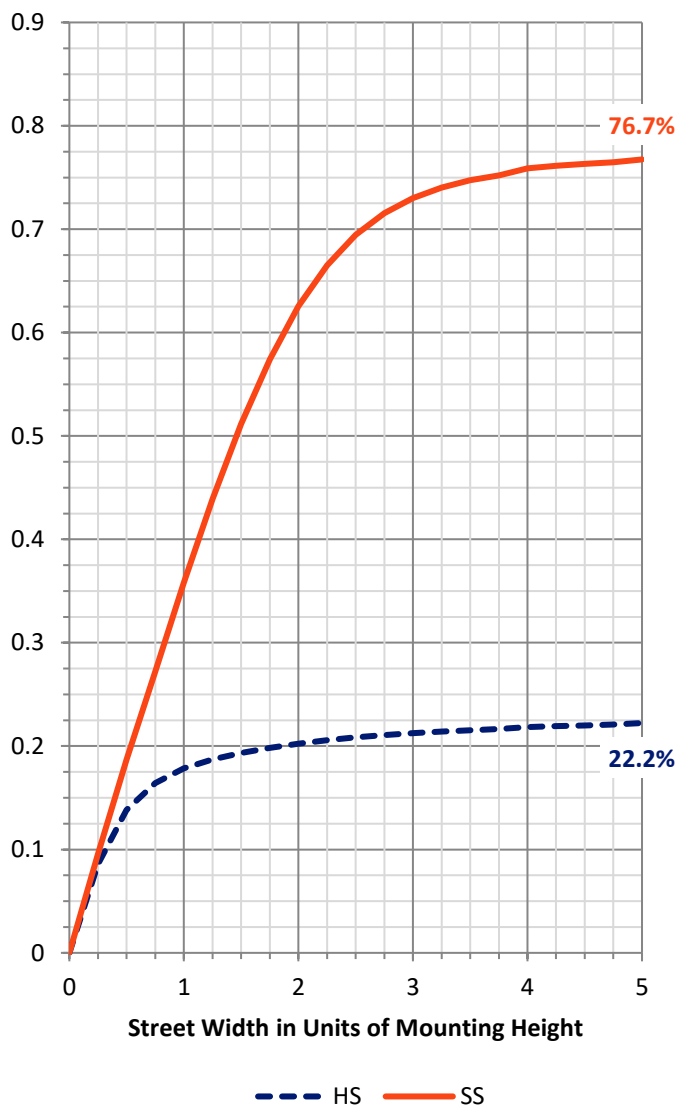
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2380.4	0.0	2380.4
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	8005.6	0.0	8005.6
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	10386.0	0.0	10386.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.9	1.0
10°-20°	359.4	3.5
20°-30°	599.2	5.8
30°-40°	850.3	8.2
40°-50°	1250.8	12.0
50°-60°	2118.3	20.4
60°-70°	3006.8	29.0
70°-80°	1826.7	17.6
80°-90°	266.6	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	10386.0	100.0
0°-180°	10386.0	100.0

**Coefficient of Utilization**

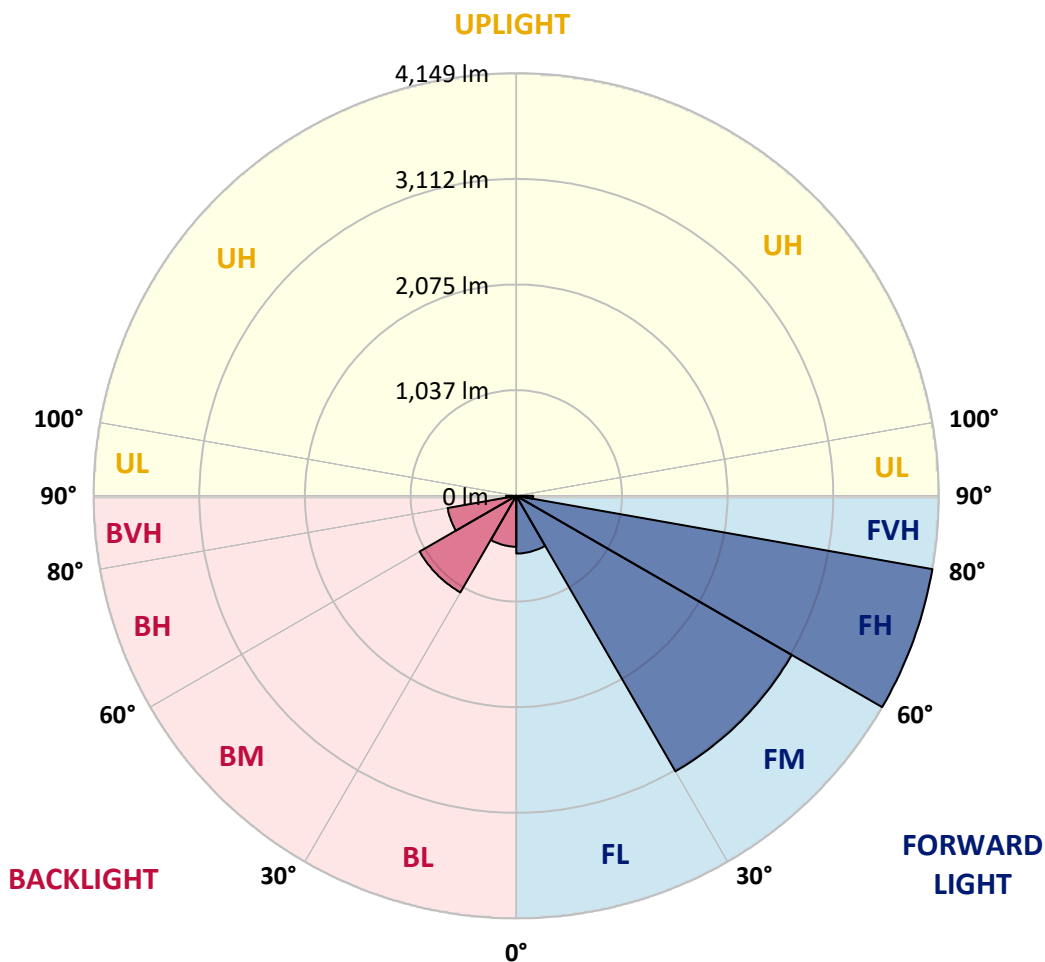


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	566.7	5.5			
FM (30°-60°)	3123.6	30.1			
FH (60°-80°)	4149.1	39.9			G2/5000
FVH (80°-90°)	166.1	1.6			G2/225
BL (0°-30°)	499.8	4.8	B1/500		
BM (30°-60°)	1095.8	10.6	B2/2500		
BH (60°-80°)	684.4	6.6	B2/1000		G2/1000
BVH (80°-90°)	100.5	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1058.1	1058.1	1058.1	1058.1	1058.1	1058.1	1058.1	1058.1	1058.1	1058.1	1058.1
2.5°	1111.1	1111.8	1113.2	1109.7	1099.7	1096.9	1095.8	1085.5	1078.7	1068.8	1060.3
5°	1199.9	1200.7	1198.5	1188.6	1166.5	1150.2	1148.8	1125.3	1104.0	1081.2	1064.2
7.5°	1292.7	1293.8	1287.0	1268.2	1237.3	1208.8	1207.1	1175.1	1142.7	1108.2	1082.7
10°	1374.8	1370.6	1359.5	1333.2	1296.6	1261.8	1260.4	1227.0	1189.6	1148.1	1113.9
12.5°	1429.6	1426.0	1411.8	1379.8	1339.6	1307.6	1304.8	1273.9	1237.6	1192.1	1151.3
15°	1459.8	1462.3	1443.1	1406.8	1367.7	1340.7	1338.2	1316.2	1283.8	1238.0	1191.1
17.5°	1463.7	1465.8	1447.3	1411.4	1379.4	1361.0	1359.9	1345.3	1321.9	1277.8	1228.7
20°	1440.9	1442.4	1427.1	1397.6	1376.6	1370.9	1370.6	1364.2	1346.7	1307.6	1260.0
22.5°	1407.9	1408.9	1397.9	1376.6	1369.5	1378.4	1380.9	1378.4	1365.9	1329.3	1284.5
25°	1399.7	1399.0	1387.6	1365.9	1372.0	1390.8	1394.0	1395.1	1386.6	1354.6	1315.8
27.5°	1439.2	1436.7	1415.0	1380.2	1384.1	1406.8	1411.1	1421.4	1416.1	1388.0	1351.4
30°	1553.3	1549.0	1504.6	1434.2	1415.0	1426.7	1432.0	1448.4	1449.5	1426.0	1398.6
32.5°	1745.9	1740.6	1660.9	1535.1	1467.2	1447.0	1452.0	1476.5	1489.6	1471.5	1442.0
35°	1989.4	1983.3	1878.8	1706.8	1554.7	1485.7	1489.3	1508.8	1535.1	1509.5	1470.4
37.5°	2243.2	2228.6	2128.0	1908.7	1693.6	1568.5	1568.5	1571.0	1583.5	1530.1	1503.8
40°	2495.5	2480.9	2389.9	2146.1	1873.5	1699.0	1690.8	1635.7	1625.8	1579.9	1571.0
42.5°	2730.1	2725.8	2672.2	2414.5	2084.6	1827.3	1815.9	1722.4	1724.6	1696.1	1696.5
45°	2979.6	2979.6	2935.9	2685.3	2330.6	2033.4	2022.1	1884.5	1905.8	1892.7	1924.3
47.5°	3183.3	3189.7	3183.6	2967.5	2616.7	2295.4	2274.8	2109.2	2168.9	2214.0	2306.1
50°	3391.2	3401.2	3402.2	3277.1	2962.6	2606.8	2583.3	2407.4	2540.6	2670.0	2850.9
52.5°	3693.0	3715.4	3626.1	3586.0	3386.2	2976.4	2953.3	2790.9	3013.4	3195.0	3506.7
55°	3972.7	3953.1	3889.5	3914.4	3839.8	3397.2	3379.8	3237.3	3540.1	3776.1	4181.0
57.5°	4124.1	4122.7	4186.7	4293.3	4328.8	3916.2	3901.6	3763.0	4134.1	4311.4	4814.0
60°	4301.8	4304.3	4462.8	4704.9	4851.3	4562.4	4556.0	4450.8	4710.9	4811.2	5310.6
62.5°	4326.7	4371.5	4644.5	5061.0	5340.4	5317.3	5331.5	5070.3	5227.0	5210.0	5681.3
65°	4040.6	4099.6	4593.6	5168.7	5826.6	6143.0	6156.1	5693.4	5634.0	5550.8	5813.9
67.5°	3454.1	3541.6	4078.3	4934.5	5986.9	6753.3	6771.7	6176.4	5971.7	5666.3	5494.7
70°	2513.6	2610.7	3150.9	4214.4	5701.2	6948.4	6969.4	6390.0	5984.5	5337.6	4690.7
72.5°	1518.4	1594.5	2039.8	3102.6	4811.9	6593.0	6630.3	6119.2	5463.7	4521.1	3463.7
75°	666.8	716.6	986.3	1787.8	3444.9	5454.9	5501.4	5237.7	4439.4	3285.6	2047.3
77.5°	284.0	298.2	404.5	776.6	1947.4	3727.4	3791.4	3827.0	3012.0	1787.8	865.1
80°	177.0	182.7	228.9	351.5	911.3	2093.5	2162.5	2251.7	1495.7	657.2	302.1
82.5°	107.7	114.1	152.1	212.6	474.5	949.0	982.1	1045.0	580.4	284.0	156.4
85°	64.7	69.3	93.1	134.4	270.1	373.2	372.9	412.3	273.3	182.7	82.5
87.5°	30.9	34.5	49.8	69.7	136.1	140.0	131.2	148.6	166.0	119.8	41.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1058.1	1058.1	1058.1	1058.1	1058.1	1058.1	1058.1	1058.1	1058.1	1058.1	1058.1
2.5°	1057.4	1056.0	1051.4	1047.8	1047.1	1045.0	1043.2	1044.3	1045.7	1046.0	1046.0
5°	1057.1	1053.2	1047.1	1044.6	1047.8	1052.1	1057.4	1064.5	1068.8	1072.0	1074.1
7.5°	1074.1	1066.7	1059.9	1058.5	1064.9	1076.3	1088.3	1103.3	1113.6	1120.7	1122.1
10°	1102.6	1093.3	1086.6	1088.0	1099.4	1115.7	1132.8	1152.0	1167.6	1177.2	1177.9
12.5°	1135.3	1126.4	1120.0	1126.0	1144.9	1164.8	1182.5	1199.2	1213.5	1223.1	1223.1
15°	1172.9	1166.5	1159.1	1172.9	1198.5	1216.3	1223.8	1231.9	1239.8	1246.9	1245.4
17.5°	1209.2	1203.1	1199.2	1215.6	1242.2	1250.4	1245.4	1239.4	1239.4	1243.3	1244.0
20°	1240.5	1235.1	1237.6	1253.6	1267.5	1259.0	1240.5	1221.3	1213.5	1215.6	1217.7
22.5°	1267.8	1265.3	1272.8	1280.3	1270.3	1240.5	1206.3	1180.4	1170.8	1170.1	1170.8
25°	1299.8	1299.5	1308.7	1295.2	1251.1	1196.0	1150.2	1125.0	1119.6	1123.9	1131.0
27.5°	1339.6	1343.5	1348.2	1298.8	1212.0	1128.9	1082.3	1064.9	1070.2	1080.5	1087.3
30°	1390.5	1401.1	1391.2	1289.9	1155.9	1052.1	1007.7	1002.7	1017.3	1031.8	1038.9
32.5°	1439.9	1456.6	1432.4	1266.8	1083.4	970.7	936.2	934.8	952.6	966.8	976.7
35°	1479.7	1512.7	1463.3	1220.9	999.5	895.7	870.5	860.9	867.3	884.0	895.3
37.5°	1531.6	1586.7	1484.7	1150.9	908.5	833.9	804.3	782.3	776.6	783.4	789.1
40°	1626.5	1699.3	1494.6	1053.2	819.6	772.0	742.1	709.8	687.4	671.1	671.4
42.5°	1781.4	1846.1	1488.2	934.4	737.5	711.6	677.8	640.5	604.2	567.3	564.4
45°	2033.1	2064.4	1469.0	808.6	665.4	648.3	616.7	579.4	531.0	489.1	485.2
47.5°	2435.8	2366.5	1439.2	698.8	601.8	594.6	565.5	522.5	471.3	437.5	434.7
50°	2984.9	2802.6	1424.6	611.3	545.6	547.7	523.9	478.4	430.1	405.2	402.4
52.5°	3641.8	3310.5	1452.7	543.8	500.5	507.9	490.1	447.5	407.0	387.4	384.6
55°	4323.2	3836.6	1482.9	494.8	457.8	472.4	466.3	431.1	394.5	376.4	373.9
57.5°	4906.4	4229.3	1422.5	455.0	419.8	442.5	447.8	420.8	388.1	371.8	368.9
60°	5273.6	4387.5	1263.9	417.6	389.6	418.7	437.2	418.0	390.6	389.2	387.1
62.5°	5447.8	4373.6	1026.1	388.1	370.7	408.4	445.0	434.0	419.1	431.9	432.9
65°	5369.6	4164.6	764.2	368.6	357.2	412.3	468.5	464.2	427.2	440.0	441.8
67.5°	4854.9	3666.0	565.9	351.5	342.3	423.3	511.1	474.2	411.2	420.5	414.8
70°	3924.0	2906.4	436.5	332.3	327.0	421.9	530.3	468.1	393.8	396.0	380.7
72.5°	2705.9	1981.9	355.1	314.6	305.0	384.6	516.8	453.2	379.2	362.9	342.6
75°	1471.5	1063.8	301.8	296.1	266.2	337.7	491.9	442.5	366.1	344.4	333.0
77.5°	579.0	441.5	262.0	270.8	232.8	298.2	464.2	422.3	348.0	319.5	313.8
80°	236.4	225.3	217.2	234.2	200.1	260.9	430.8	398.4	326.3	296.4	285.1
82.5°	134.0	140.0	168.8	184.8	162.4	240.3	414.8	379.2	300.3	265.5	252.0
85°	68.6	82.1	117.6	132.6	119.4	204.4	382.1	332.0	241.0	203.3	204.4
87.5°	33.1	45.9	74.3	83.2	77.5	147.9	285.4	240.6	187.7	148.6	144.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)